CLAIMS:

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A method for effecting bi-directional IR data communication between an object transceiver and a reader, the method comprising the follosteps carried out by the object transceiver:

(One) transmitting successive data packets to the reader,

(Two) upon termination of a transmission of each of said data packets, opening a time window for receiving a transmission from the reader.

2. The method according to Claim 1, wherein:

the object transceiver is one of a plurality of object transceivers each worn by a person to whom a short message is to be transmitted and each having a respective unique ID and being able to effect autonomous transmission to the reader, and

in step (a) each object transceiver transmits for a negligible fraction of its duty cycle thereby reducing a likelihood that two or more object transceivers will try to transmit simultaneously.

3. The method according to Claim 1, wherein:

the object transceiver is one of a plurality of object transceivers each worn by a person to whom a short message is to be transmitted and each having a respective unique ID and being able to effect autonomous transmission to the reader, and

in step (a) each object transceiver has a randomly variable duty cycle thereby reducing a likelihood that two or more object transceivers will try to transmit simultaneously.

4. A method for use with a data communications network comprising a server connected to a plurality of readers in order to send a message using IR data communication to a portable object transceiver operating according to any one of the preceding claims, said method comprising the following steps carried out by at least one of said readers:

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- a) awaiting receipt of a transmission from said portable object transceiver of a data packet, and
- during the time window opened thereby, sending the message to the portable object transceiver from the respective reader in communication with the portable object transceiver.
- 5. The method according to Claim 4, wherein the message is sent via the server and there are further included the step of:
 - c) locating the respective reader in communication with the portable object transceiver, and
 - d) sending the message from the server to the respective reader for onward transmission to the portable object transceiver.
- **6**. An object transceiver adapted for bi-directional IR data communication with a reader, the object transceiver comprising:

a transmitter for transmitting successive data packets to the reader, and

- a timer responsive to termination of a transmission of each of said data packets, for opening a time window for receiving a transmission from the reader.
- 7. The object transceiver according to Claim 6, including a microcontroller for controlling the transmitter to transmit for a negligible fraction of a duty cycle thereof, thereby reducing a likelihood that two or more object transceivers will try to transmit simultaneously.
- 8. The object transceiver according to Claim 6, including a microcontroller for randomly varying a duty cycle of the transmitter thereby reducing a likelihood that two or more object transceivers will try to transmit simultaneously.
- 9. A reader for sending a message using IR data communication to a portable object transceiver, said reader comprising:
- a receiver for receiving a transmission of a data packet from the portable object transceiver, and

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a transmitter for sending the message to the portable object transceiver during a narrow time window opened thereby.

- 10. A system comprising a server connected to a plurality of readers for sending a message using IR data communication to a portable object transceiver, wherein the server is adapted to:
 - (One)locate a respective one of said readers in communication with the portable object transceiver, and
 - (**Two**) send the message from the server to the respective reader for onward transmission to the portable object transceiver during a narrow time window opened thereby.

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